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TRENDS IN ENGINEERING OCCUPATIONS

JOB SERVICE

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MONTANA LABOR/SUPPLY DEMAND ANALYSIS

REPORT FOR

OCTOBER - DECEMBER 1981
JANUARY - MARCH 1982

STATE OF MONTANA

TED SCHWINDEN, GOVERNOR

DEPARTMENT OF LABOR AND INDUSTRY
DAVID L. HUNTER, COMMISSIONER

Volume 2 - Number 1 & 2

Produced by:
Research & Analysis
in cooperation with the
U.S. Department of Labor
Employment and Training Administration

Published - May 1982

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TABLE OF CONTENTS

	PAGE NUMBER
INTRODUCTION	1
DESCRIPTION OF AREA	1
LIMITATIONS OF DATA	2
ANALYSIS, QUARTER ENDING DECEMBER 31, 1981	2
LABOR SUPPLY	2
LABOR DEMAND	3
ANALYSIS, QUARTER ENDING MARCH 31, 1982	4
LABOR SUPPLY	4
LABOR DEMAND	4
TRENDS IN ENGINEERING OCCUPATIONS	5
CHARACTERISTICS OF ACTIVE JOB SERVICE APPLICANTS TABLE 1	7
TOTAL AVAILABLE JOB SERVICE APPLICANTS TABLE 2 A (DECEMBER 31, 1981)	9
TABLE 2 B (MARCH 31, 1982)	10
CHARACTERISTICS OF JOB SERVICE APPLICANTS BY OCCUPATIONAL CATEGORY: TABLE 3 A (DECEMBER 31,1981)	11
TABLE 3 B (MARCH 31, 1982).	12
ACTIVE JOB SERVICE APPLICANTS. OCCUPATIONS WITH 10 OR MORE APPLICANTS (TABLE 4)	13
APPRENTICESHIP ACTIVITIES BY TRADE TABLE 5 A (DECEMBER 31, 1981)	18
TABLE 5 B (MARCH 31, 1982)	24
EMPLOYMENT BY INDUSTRY (TABLE 6)	30
JOB SERVICE OPENINGS AVAILABLE BY INDUSTRY (TABLE 7)	31
STATUS OF JOB SERVICE OPENINGS BY OCCUPATIONAL CATEGORY: TABLE 8 A (DECEMBER 31, 1981)	32
TABLE 8 B (MARCH 31, 1982)	33
JOB SERVICE LISTED OPENINGS, OCCUPATIONS WITH 10 OR MORE OPENINGS: TABLE 9 A (DECEMBER 31, 1981)	34
TABLE 9 B (MARCH 31, 1982)	35

TABLE OF CONTENTS (CONT.)

PAGE NUMBER

DISTRIBUTION OF EMPLOYMENT BY MAJOR OCCUPATIONAL GROUP, 1976-1985: TABLE 10..... 36

TOTAL EMPLOYMENT BY OCCUPATION CATEGORY, 1976-1985: TABLE 11..... 37

TOTAL ANNUAL AVERAGE JOB OPENINGS DUE TO GROWTH AND LABOR FORCE SEPARATIONS BY SELECTED OCCUPATIONAL GROUP 1976-1985 (TABLE 12)..... 39

SELECTED OCCUPATIONS HAVING HIGH GROWTH RATES 1976-1985 (TABLE 13)..... 41

SELECTED OCCUPATIONS HAVING ANNUAL AVERAGE OPENINGS GREATER THAN 100 (TABLE 14)..... 44

SELECTED OCCUPATIONS HAVING NEGATIVE GROWTH RATES 1976-1985 (TABLE 15)..... 47

GLOSSARY OF TERMS..... 49

Introduction

This publication features data relating to labor supply and demand for the state of Montana. The data as reported cover the time period of October 1, 1981 through March 31, 1982. All data are reported on a statewide basis.

Description of Area

Geographically, Montana is the fourth largest state encompassing 147,138 square miles. The state's total population, however, is only 786,690 yielding a density of about 5.4 people per square mile. Almost half (47.8%) of the population is clustered around nine counties in the state. Seven of these population centers are in the more scenic, mountainous regions of western Montana.

Montana is bordered by North and South Dakota to the east, Wyoming to the south, and Idaho to the west. To the north, it shares an international boundary with Canada. The Rocky Mountains run north and south through the western part of the state. Very few mountain ranges are found in the eastern portion of the state.

The climate of the state varies with altitude. The average annual precipitation is 15.33 inches; geographically, however, it varies from a low of 9.55 inches in the southern part of the state to a high of 39.22 inches on the western slopes of the Continental Divide. Average maximum daytime temperatures in Montana cities range from 19.4 degrees Fahrenheit in January to 68.0 degrees Fahrenheit in July. Large temperature fluctuations throughout the year are common.

The problems facing Montana's labor force and industry are somewhat reflected in the geography of the state. For the most part, Montanans are attracted to the larger communities of western Montana. Unfortunately, the available jobs are not presently in these areas. Hundreds of miles separate the potential workers from the energy-related job opportunities in the rural areas of eastern Montana.

During the quarter Montana's labor force, particularly in the western part of the state, has continued to feel the effects of a depressed economy. The wood products industries have operated at very low levels for well over a year now. Housing construction also is extremely low as a result of high interest rates. State and Federal budget cuts have continued to decrease the number of people employed in government. This decrease will probably continue through the next quarter.

In a more positive light, local energy development continues to moderate the economic decline in eastern Montana. The recent surplus of oil has caused a reduction in oil field activity. Hopefully, this will be a short term condition. As spring and summer approach tourism should cause an increase in related jobs.

Montana's civilian labor force in December, 1981 was 382,391 people; increasing to 389,882 in March, 1982. The unemployment rate (not seasonally adjusted) has jumped from 5.8% in September 1981 to 6.7% in December 1981 to 10.4% in March 1982. A year earlier the unadjusted unemployment rate was 4.9% (September 1980), 6.8% (December 1980), and 7.7% (March 1981).

Limitations of Data

The data presented in this report are rather limited for many reasons. A complete and accurate file of all labor supply and demand data is not readily available. Most of the data presented are taken from the ESARS system, which represents only a small portion of the actual labor supply and demand factors.

The ESARS system in itself has many limitations. Applicants may be registered under one DOT code, although they are actually seeking work in a different classification. This causes an overstatement of supply in one DOT category and an understatement in others. "Active" applicants at the end of a quarter may have been "hired" based on a referral during that quarter. This is due to a paper lag in the system or verification of the hire that has been held back pending actual entry on the job. Similarly, the operational procedures can affect the report of "unfilled jobs". A lag in paperwork concerning job placement or cancellation can cause a discrepancy in the category.

The data are presented on a statewide basis. Consequently, the demand occupations listed in Table 9 are a subset of Table 4, which lists occupations with a surplus of applicants. All of the unfilled job openings listed in Table 9 theoretically could be filled by qualified applicants listed in Table 4 if the distance between population center and job sites was not so great. The information provided in these tables would be more beneficial to users if it were broken down into smaller geographic areas.

QUARTER ENDING DECEMBER 31, 1981

Labor Supply Analysis

Tables 1 through 4 of this document present the information concerning the labor supply as registered with the Job Service in the state of Montana. Table 1 presents the characteristics of active Job Service applicants. Over half (60.9%) of the 25,886 persons registered are male; sixty percent of the applicants fall in the age range of 22 to 39 years. Most of the applicants (76.5%) have at least a high school education. One third have unemployment claims filed, up from 25.4% in September, 1981.

Total available applicants at the end of the quarter by occupational category and characteristics are given in Tables 2 and 3. Partial applicants are not included in these data, thus reducing the active applicants total by 980. Partial applicants, however, do receive equal service from the Job Service.

The four largest occupational categories of applicants are Clerical and Sales

(5,657), Service (4,981), Structural (4,182), and Miscellaneous (4,040). These four categories comprise 75.7% of the available applicants. Females comprise 77.7% of the Clerical and Sales applicants and 67.2% of Services, while males dominate Structural and Miscellaneous with 97.1% and 93.5% respectively. A little more than 50% of the economically disadvantaged applicants are registered in categories dominated by female applicants -- Clerical, Sales and Service. Ninety-seven percent of the applicants are considered fully qualified for the jobs for which they are registered, leaving only 3% as entry level applicants.

Table 4 provides a listing of occupations which have ten or more applicants registered with Job Service. The occupations listed in this table have not varied much over the past year.

Table 5 provides a list of apprenticeship activities by trade. A total of 1,661 active apprenticeships remained at the end of the quarter. Over one-third (42.3%) of the apprentices were clustered in the categories of Carpenter, Electrician, Plumber, Electrician Lineman, Automotive Mechanic, Insulation Installer, and Installation Technician.

Labor Demand

Tables 6 through 9 of the document present labor demand information for the quarter. Tables 10 through 15 provide information concerning projected labor demand of the year 1985. The latter set of tables is presented for the user's information; an analysis is not provided.

Table 6 shows employment by non-farm industry as of December, 1981. In analyzing the table, it is quite apparent that the bulk of the employment (64.5%) is in the industries of Retail Trade, Service and Miscellaneous, and Public Administration.

Job openings available by industry for the quarter are outlined in Tables 7 and 8. Over half of the openings received (57.3%) and openings filled (56.6%) were in Retail Trade and Services. Typically, these jobs have high turnover rates due to low pay, odd hours of work, lack of career ladder, and poor working conditions. Some sales positions have the added factor of working on a commission basis. Over half (50.4%) of the positions unfilled at the end of the quarter are in Clerical, Sales and Services.

Table 9 provides a listing of occupations which had ten or more openings at the end of the quarter. Here again the data show the bulk of the openings (79.4%) to be in occupations generally found in Clerical, Sales and Services.

QUARTER ENDING MARCH 31, 1982

Labor Supply Analysis

Tables 1 through 4 of this document present the information concerning the labor supply as registered with the Job Service in the state of Montana. Table 1 presents the characteristics of active Job Service applicants. Over half (59.6%) of the 24,465 persons registered are male; over half of the applicants fall in the age range of 22 to 39 years. Most of the applicants (76.8%) have at least a high school education. About one third have unemployment claims filed.

Total available applicants at the end of the quarter by occupational category and characteristics are given in Tables 2 and 3. Partial applicants are not included in these data, thus reducing the active applicants total by 754. Partial applicants, however, do receive equal service from the Job Service.

The four largest occupational categories of applicants are Clerical and Sales (5,516), Service(4,901), Structural (3,995), and Miscellaneous (3,791). These four categories comprise 76.8% of the available applicants. Females comprise 78.6% of Clerical and Sales applicants and 68.2% of Services, while males dominate Structural and Miscellaneous with 96.9% and 93.2% respectively. A little more than 50% of the economically disadvantaged applicants are registered in categories dominated by female applicants -- Clerical, Sales and Service. Ninety-seven percent of the applicants are considered fully qualified for the jobs for which they are registered, leaving only 3% as entry level applicants.

Table 4 provides a listing of occupations which have ten or more applicants registered with Job Service. The occupations listed in this table have not varied much over the past year.

Table 5 provides a list of apprenticeship activities by trade. A total of 1,498 active apprenticeships remained at the end of the quarter. Over one-fourth (29.1%) of the apprentices were clustered in the categories of Carpenter, Electrician, Plumber, and Electrician Lineman.

Labor Demand

Tables 6 through 9 of the document present labor demand information for the quarter. Tables 10 through 15 provide information concerning projected labor demand of the year 1985. The latter set of tables is presented for the user's information; an analysis is not provided.

Table 6 shows employment of non-farm industry as of March, 1982. In analyzing the table, it is quite apparent that the bulk of the employment (65.4%) is in the industries of Retail Trade,Service and Miscellaneous, and Public Administration.

Job openings by industry are outlined in Table 7. Over half of the openings received (62.6%) and openings filled (61.6%) were in Retail Trade and Services. Typically, these jobs have high turnover rates due to low pay, odd hours of work, lack of career ladder, and poor working conditions. Some sales positions have the added factor of working on a commission basis.

Table 8 B shows the status of Job Service openings by major occupational category. The four largest categories of openings received are Professional, Technical, and Managerial (22.7%); Clerical, Sales (22.2%); Service (22.4%); Miscellaneous (19.6%).

TRENDS IN ENGINEERING

Engineering is the second largest professional occupation, exceeded only by teaching. Most engineers specialize in one of the more than 25 specialities recognized by professional societies. The 12 major branches are aerospace, agricultural, biomedical, ceramic, chemical, civil, electrical, industrial, mechanical, metallurgical, mining, and petroleum engineering. About three-quarters of all engineers are electrical, industrial, mechanical, or civil engineers.

Almost half of all engineers work in manufacturing industries - mostly in the electrical and electronic equipment, aircraft and parts, machinery, chemicals, scientific instruments, primary metals, fabricated metal products, and motor vehicle industries. Other employers of engineers are construction, federal, state and local governments.

Demand for engineers with at least a bachelor's degree in engineering is expected to be good through the 1980's. The average annual openings for engineers are projected to be 46,500 (1978-1990) nationally, representing a 26.8% growth over the same period. Montana projections indicate average annual openings of 131 for a total growth of 33.6% over the 1976-1985 period. The largest growth is expected in civil, electrical, and industrial engineering.

The economic configuration following the current recession could have major effects on the engineering specialities most in demand. Currently, engineers specializing in computer, micro-electronics, or related technologies are in great demand.

The major source of supply of engineers is new graduates in engineering. An average of about 65,000 new engineers are expected to enter the field annually. Since the number of engineering degrees expected to be granted in the 1980's is substantially higher than the projected openings, some graduates may experience competition for available jobs. The chances of getting a job can be maximized by selection of a career in one of the more stable industries, by choosing a speciality with long term growth potential, by continuing education to keep up on the latest technological developments, and by being willing to relocate not only in Montana but nationally.

The national earnings of engineers in 1978 ranged from $16,800 to $30,000 per year. In 1981, Montana engineers earned from $14,800 to $39,000 per year. Engineers working in management often earn significantly more. The salary level of engineers varies between the different specialties, with the specialties most in demand or using the highest technology receiving the higher salaries.

A related group of occupations is engineering technology. Engineering technologists work hand in hand with engineers by performing many of the more routine jobs associated with engineering projects. Although their jobs are more limited in scope and more practically oriented than those of engineers, technicians often apply the theoretical knowledge developed by engineers to actual situations.

The educational requirements for engineering technicians are lower than those for engineers. However, employers prefer applicants with specialized post-secondary training and those with a bachelor's degree in engineering technology have a better chance of finding employment.

Employment of technicians from 1978-1990 is projected to increase 25.1%, with an average of 23,000 openings per year. The number of engineering technicians graduating from vo-techs, community colleges, and 4-year universities is expected to exceed the projected openings, depending on engineering specialty. Those graduating with bachelor's degrees being the most prefered by employers.

Technicians earn considerably less than engineers. Generally technicians earn between $10,500 to $19,600 (1978) per year.

Overall, the 1980's should show increasing employment for engineers and engineering technicians. Demand should be good for all types of engineers and technicians with certain specialties such as computer and micro-electronics showing a shortage of qualified applicants.

TABLE 1

CHARACTERISTICS OF ACTIVE JOB SERVICE APPLICANTS

END OF QUARTER

CHARACTERISTICS OF APPLICANTS	DECEMBER 31, 1981		MARCH 31, 1982	
	TOTAL	PERCENT	TOTAL	PERCENT
TOTAL	25,886	100.0	24,465	100.0
SEX				
Male	15,753	60.9	14,591	59.6
Female	10,133	39.1	9,874	40.4
AGE				
15 and Under	61	.2	56	.2
16-19	2,691	10.4	2,375	9.7
20-21	2,552	9.9	2,625	10.7
22-39	15,608	60.3	14,800	60.5
40-54	3,825	14.8	3,533	14.4
55 and Over	1,149	4.4	1,076	4.4
EDUCATION				
0 - 7	373	1.4	363	1.5
8 - 11	5,725	22.1	5,309	21.7
12	12,397	47.9	11,688	47.8
Over 12	7,391	28.6	7,105	29.0

SOURCE: ESARS TABLE 06.

TABLE 1 (CONT.)

CHARACTERISTICS OF ACTIVE JOB SERVICE APPLICANTS

END OF QUARTER

CHARACTERISTICS OF APPLICANTS	DECEMBER 31, 1981		MARCH 31, 1982	
	TOTAL	PERCENT	TOTAL	PERCENT
VETERAN	4,359	16.8	4,248	17.4
DISABLED	192	.7	219	.9
VIETNAM ERA	1,931	7.5	1,738	7.1
UNDER 35	1,247	4.8	1,130	4.6
SPECIAL VETERAN	1,117	4.3	633	2.6
RACE/ETHNIC				
WHITE	23,230	89.7	21,946	89.7
BLACK	129	.5	109	.4
HISPANIC	317	1.2	278	1.1
AMERICAN INDIAN & ALASKAN NATIVE	2,045	7.9	1,951	8.0
ASIAN & PACIFIC ISLANDER	124	.5	137	.6
INFORMATION NOT AVAILABLE	41	.2	44	.2
OTHER				
WELFARE	2,143	8.3	1,708	7.0
CLAIMANT	8,577	33.1	8,127	33.2
HANDICAPPED	1,271	4.9	1,956	8.0
ECONOMICALLY DISADVANTAGED	5,137	19.8	4,492	18.4

TABLE 2 A

TOTAL AVAILABLE JOB SERVICE APPLICANTS *

END OF QUARTER -- DECEMBER 31, 1981

OCCUPATION	TOTAL	PERCENT OF TOTAL	FULLY QUALIFIED APPLICANTS	PERCENT OF TOTAL	ENTRY LEVEL APPLICANTS	PERCENT OF TOTAL
TOTAL	24,906	100.0	24,202	100.0	704	100.0
Prof,Tech,Mgr.	2,864	11.5	2,808	11.6	56	8.0
Clerical, Sales	5,657	22.7	5,394	22.3	263	37.4
Service	4,981	20.0	4,806	19.9	175	24.9
Agriculture	1,244	5.0	1,222	5.0	22	3.1
Processing	249	1.0	240	1.0	9	1.3
Machine Trades	1,403	5.6	1,374	5.7	29	4.1
Bench Work	229	.9	227	.9	2	.3
Structural	4,182	16.8	4,110	17.0	72	10.2
Miscellaneous	4,040	16.2	3,964	16.4	76	10.8
Invalid Codes	57	.2	57	.2	---	----

* Does not include partial applications
SOURCE: ESARS TABLE 96.

TABLE 2 B

TOTAL AVAILABLE JOB SERVICE APPLICANTS *

END OF QUARTER -- MARCH 31, 1982

OCCUPATION	TOTAL	PERCENT OF TOTAL	FULLY QUALIFIED APPLICANTS	PERCENT OF TOTAL	ENTRY LEVEL APPLICANTS	PERCENT CHANGE
TOTAL	23,711	100.0	23,028	100.0	683	100.0
Prof, Tech, Mgr.	2,739	11.6	2,676	11.6	63	9.2
Clerical, Sales	5,516	23.3	5,279	22.9	237	34.7
Service	4,901	20.7	4,736	20.6	165	24.2
Agricultural	1,105	4.7	1,085	4.7	20	2.9
Processing	216	.9	206	.9	10	1.5
Machine Trades	1,222	5.2	1,191	5.2	31	4.5
Bench Work	187	.8	184	.8	3	.4
Structural	3,995	16.8	3,912	17.0	83	12.2
Miscellaneous	3,791	16.0	3,720	16.2	71	10.4
Invalid Codes	39	.2	39	.2	----	----

* Does not include partial applications.
SOURCE: ESARS TABLE 96.

TABLE 3 A

CHARACTERISTICS OF ACTIVE FILE JOB SERVICE APPLICANTS BY OCCUPATIONAL CATEGORY*

END OF QUARTER -- DECEMBER 31, 1981

CHARACTERISTICS OF APPLICANTS	ACTIVE FILE TOTAL	PROFESSION. TECHNICAL & MANAGER	CLERICAL & SALES	SERVICE	AGRICULTURAL FISHERIES & FORESTRY	PROCESSING	MACHINE TRADES	BENCH WORK	STRUCTURAL	MISC.	MISCODED
TOTAL	24,906	2,864	5,657	4,981	1,244	249	1,403	229	4,182	4,040	57
SEX											
Male	15,120	1,634	1,262	1,632	1,061	191	1,316	141	4,060	3,777	46
Female	9,786	1,230	4,395	3,349	183	58	87	88	122	263	11
AGE											
Under 22	5,082	82	1,196	1,508	281	32	175	30	732	1,035	11
22 - 44	16,687	2,301	3,749	2,794	792	186	1063	159	2,999	2,605	50
45 and Older	3,137	481	712	679	171	31	165	40	451	400	7
OTHER											
Minority	2,444	232	367	673	126	23	69	55	543	350	6
Veteran	4,283	570	515	516	218	52	440	44	1,043	870	15
Economically Disadvantaged	4,908	247	979	1,608	240	51	232	64	688	779	20

* Excludes applicants whose status is unknown.
SOURCE: ESARS TABLE 96.

TABLE 3 B

CHARACTERISTICS OF JOB SERVICE APPLICANTS BY OCCUPATIONAL CATEGORY*

END OF QUARTER -- MARCH 31, 1982

CHARACTERISTICS OF APPLICANTS	ACTIVE FILE TOTAL	PROFESSIONAL TECHNICAL & MANAGER	CLERICAL & SALES	SERVICE	AGRICULTURAL FISHERIES & FORESTRY	PROCESSING	MACHINE TRADES	BENCH WORK	STRUCTURAL	MISC.	MISCODED
TOTAL	23,711	2,739	5,516	4,901	1,105	216	1,222	187	3,995	3,791	39
SEX											
Male	14,123	1,599	1,178	1,557	922	164	1,153	118	3,873	3,534	25
Female	9,588	1,140	4,338	3,344	183	52	69	69	122	257	14
AGE											
Under 22	4,883	80	1,247	1,470	234	29	170	19	700	928	6
22-44	15,897	2,210	3,619	2,789	705	156	898	140	2,863	2,492	25
45 and Older	2,931	449	650	642	166	31	154	28	432	371	8
OTHER											
Minority	2,357	168	370	679	151	19	65	30	545	323	7
Veteran	4,189	621	428	369	226	43	429	32	1,101	936	4
Economically Disadvantaged	4,363	247	894	1,534	237	44	191	39	556	613	8

* Excludes applicants whose status is unknown.
SOURCE: ESARS TABLE 96.

TABLE 4
ACTIVE JOB SERVICE APPLICANTS
OCCUPATIONS WITH 10 OR MORE APPLICANTS
END OF QUARTER

DOT CODE	OCCUPATIONAL TITLE	TOTAL ACTIVE APPLICANTS END OF QUARTER	
		DECEMBER 31, 1981	MARCH 31, 1982
001-261-010	Drafter, Architectural	15	14
003-161-014	Electronics Technician	23	21
005-061-014	Civil Engineer	--	23
005-281-010	Civil Drafter	--	11
007-061-014	Mechanical Engineer	10	--
029-261-010	Laboratory Tester	14	--
040-061-034	Forester	37	31
041-061-030	Biologist	20	17
045-107-010	Counselor	66	60
075-374-010	Nurse, General Duty	37	38
079-371-010	Dental Assistant	49	39
079-374-014	Nurse, Licensed Practical	64	53
090-227-010	Faculty Member, College	--	10
091-227-010	Teacher, Secondary	109	133
092-227-010	Teacher, Elementary	149	96
110-107-010	Lawyer	12	14
131-267-026	Writer, Technical	11	11
160-167-010	Accountant	84	71
162-157-038	Purchasing Agent	16	19
163-167-018	Manager Sales	24	24
165-067-010	Public Relations Representative	15	20
169-167-010	Administrative Assistant	164	148
169-167-034	Manager, Office	59	72
185-167-046	Manager, Retail Store	83	73
187-167-106	Manager, Food Service	49	45
189-167-034	Security Officer	14	14
193-162-018	Air Traffic Control, Tower	13	10
195-107-010	Caseworker	--	13
195-107-022	Group Social Worker	12	16
201-362-010	Legal Secretary	51	59
201-362-014	Medical Secretary	17	12
201-362-030	Secretary	297	273
202-362-014	Stenographer	11	11

SOURCE: ESARS TABLE 96.

TABLE 4 (Cont.)
ACTIVE JOB SERVICE APPLICANTS
OCCUPATIONS WITH 10 OR MORE APPLICANTS
END OF QUARTER

DOT CODE	OCCUPATIONAL TITLE	TOTAL ACTIVE APPLICANTS END OF QUARTER	
		DECEMBER 31, 1981	MARCH 31, 1982
203-362-010	Clerk Typist	161	140
203-582-030	Keypunch Operator	67	53
203-582-066	Typist	--	12
206-362-010	File Clerk	31	16
209-562-010	Clerk, General	606	629
209-587-026	Mail Clerk	--	11
210-382-010	Audit Clerk	17	23
210-382-014	Bookkeeper, Full Charge	317	317
210-382-018	Bookkeeper II	102	76
211-362-010	Cashier	41	33
211-362-018	Teller	44	46
211-462-010	Cashier II	320	287
213-362-010	Computer Operator	44	41
216-482-010	Accounting Clerk	40	31
219-362-010	Administrative Clerk	500	528
222-387-058	Stock Clerk	110	110
235-462-010	Switchboard Operator	18	20
235-662-022	Telephone Operator	16	21
237-367-038	Receptionist	234	219
238-362-010	Hotel Clerk	47	44
245-362-014	Ward Clerk	--	14
249-367-074	Teacher Aide II	60	33
250-257-010	Sales Agent, Insurance	--	13
273-353-010	Sales, Auto	17	24
279-357-050	Salesperson, General Hardware	12	12
279-357-054	Sales, General Merchandise	233	241
279-357-062	Sales, Parts	33	28
290-477-014	Sales Clerk	621	680
290-477-018	Sales Clerk, Food	26	21
292-353-010	Driver, Sales Route	43	43
299-137-010	Manager, Department (ret.tr.)	10	10
301-474-010	Houseworker, General	104	126

TABLE 4 (Cont.)
ACTIVE JOB SERVICE APPLICANTS
OCCUPATIONS WITH 10 OR MORE APPLICANTS
END OF QUARTER

DOT CODE	OCCUPATIONAL TITLE	TOTAL ACTIVE APPLICANTS END OF QUARTER	
		DECEMBER 31, 1981	MARCH 31, 1982
309-667-010	Companion	--	12
311-477-014	Counter Attendant	510	484
311-477-030	Waiter/Waitress Informal	258	268
311-477-038	Waiter/Waitress, Take out	14	--
312-474-010	Bartender	312	345
313-131-014	Chef	14	17
313-361-014	Cook (Hotel and Restaurant)	404	350
313-361-022	Cook, Short Order	85	81
315-361-010	Cook	66	46
316-684-018	Meat Cutter	48	47
317-687-010	Cook Helper	14	11
318-687-010	Kitchen Helper	435	486
323-687-014	Cleaner, Housekeeper	258	263
330-371-010	Barber	--	10
332-271-010	Cosmetologist	29	39
355-377-014	Psychiatric Aide	20	22
355-674-014	Nurse's Aide	327	360
355-674-018	Orderly	15	11
359-677-018	Nursery School Attendant	23	25
361-687-018	Laundry Laborer	21	20
372-667-034	Security Guard	61	40
372-667-038	Merchant Patroller	34	29
373-364-010	Fire Fighter	22	--
375-263-014	Police Officer	29	24
382-664-010	Janitor	357	359
408-161-010	Landscape Gardener	18	20
452-364-010	Forester Aide	224	177
452-687-014	Forest Fire Fighter	--	11
509-686-010	Laborer, General	33	29
526-381-010	Baker	30	22
600-280-022	Machinist	81	80
620-261-010	Auto Mechanic	250	220

TABLE 4 (Cont.)
ACTIVE JOB SERVICE APPLICANTS
OCCUPATIONS WITH 10 OR MORE APPLICANTS
END OF QUARTER

DOT CODE	OCCUPATIONAL TITLE	TOTAL ACTIVE APPLICANTS END OF QUARTER	
		DECEMBER 31, 1981	MARCH 31, 1982
620-261-022	Construction Equipment Mechanic	42	37
621-281-014	Airframe and Power Plant Mechanic	20	16
625-281-010	Diesel Engine Mechanic	110	94
625-281-034	Small Engine Mechanic	19	21
637-261-014	Heating and Air Cond. Mechanic	11	--
637-261-026	Refrigeration Mechanic	13	--
638-281-014	Maintenance Mechanic	52	47
638-281-018	Millwright	33	28
660-280-010	Cabinetmaker	23	21
787-682-046	Sewing Machine Operator	19	16
804-281-010	Sheet Metal Worker	24	21
805-261-014	Boilermaker	25	21
807-381-010	Auto Body Repairer	77	64
819-384-010	Welder, Combination	204	202
824-261-010	Electrician	108	115
828-281-010	Electronic Mechanic	32	27
840-381-010	Painter	92	81
844-364-010	Cement Mason	42	38
850-683-010	Bulldozer Operator	17	10
859-683-010	Operating Engineer	315	268
860-381-022	Carpenter	480	497
861-381-018	Bricklayer	11	16
862-381-010	Aircraft Mechanic	12	--
862-381-018	Pipefitter	17	15
862-381-030	Plumber	32	36
864-381-010	Carpet Layer	22	13
866-381-010	Roofer	37	33
869-664-014	Construction Worker	808	778
899-381-010	Maintenance Repairer	83	86
904-383-010	Tractor-Trailer Truck Driver	212	210
905-663-014	Truck Driver, Heavy	505	497

TABLE 4 (Cont.)
ACTIVE JOB SERVICE APPLICANTS
OCCUPATIONS WITH 10 OR MORE APPLICANTS
END OF QUARTER

DOT CODE	OCCUPATIONAL TITLE	TOTAL ACTIVE APPLICANTS END OF QUARTER	
		DECEMBER 31, 1981	MARCH 31, 1982
906-683-022	Truck Driver, Light	191	156
913-463-010	Bus Driver	57	46
913-463-018	Taxi Driver	11	11
915-467-010	Auto Service Station Attendant	146	136
919-687-014	Cleaner, Vehicle	11	18
920-587-018	Packager, Hand	21	26
920-687-014	Bagger	48	39
929-683-010	Logging Tractor Operator	55	46
929-687-030	Material Handler	1248	1038
930-684-026	Rotary Driller Helper	73	137
950-382-026	Stationary Engineer	17	17

TABLE 5 A
APPRENTICESHIP ACTIVITIES BY TRADE
END OF QUARTER -- DECEMBER 31, 1981

TRADE	ACTIVE BEGINNING OF QUARTER	NEW	CANCELLED	COMPLETED	TOTAL ACTIVE END OF QUARTER
Airconditioning Mechanic	2	3	1	1	3
Aircraft Mechanic	3	0	1	1	1
Amusement Machine Mechanic	6	1	0	0	7
Architect	0	0	0	0	0
Assembly Line Meat Cutter	2	0	0	0	2
Auto Body Fendermen	37	0	2	1	34
Automotive Electrician	0	1	0	0	1
Automotive Mechanic	81	7	7	6	75
Automotive Mechanic H.D.	15	4	2	1	16
Automotive Radiator Repairer	0	1	1	0	0
Baker	30	9	0	2	37
Barber	1	0	0	0	1
Boilermaker	28	14	1	4	37
Bookbinder	5	0	0	0	5
Bricklayer	33	0	0	1	32
Business Machine Mechanic	7	5	3	0	9
Butcher	0	1	0	0	1
Cabinet Maker	11	1	2	1	9
Cable Splicing Technician	1	0	0	1	0
Camera Repairman	0	0	0	0	0
Canvas Worker	0	0	0	0	0
Carpenter	210	27	28	17	192
Carpet Layer	1	0	0	1	0
Cash Register Technician	0	0	0	0	0
Cement Finisher	23	8	0	0	31
Centerless Grinder Operator	2	0	0	0	2
Combination Serviceman	2	0	0	0	2
Combination Technician	17	4	2	7	12
Commercial & Graphic Design	0	0	0	0	0
Contact Lens Lab Technician	0	0	0	0	0
Cook	1	0	0	0	1
Dental Instrument Maker	3	0	0	0	3

SOURCE: APPRENTICESHIP BUREAU, DEPARTMENT OF LABOR AND INDUSTRY.

TABLE 5 A (Cont.)
APPRENTICESHIP ACTIVITIES BY TRADE
END OF QUARTER -- DECEMBER 31, 1981

TRADE	ACTIVE BEGINNING OF QUARTER	NEW	CANCELLED	COMPLETED	TOTAL ACTIVE END OF QUARTER
Dental Technician	0	0	0	0	0
Diesel Mechanic	29	3	3	4	25
Draftsman	5	0	0	1	4
Dry Cleaner	1	0	0	0	1
Drywall Finisher	3	0	0	0	3
Electric Appliance Mechanic	10	3	2	0	11
Electric Motor Repairer	2	0	0	0	2
Electric Sound & Coin Mach.	1	0	0	0	1
Electrician	116	23	5	9	125
Electrician Lineman	92	4	1	6	89
Electrician Serviceman	1	0	0	0	1
Electrician Signal Systems	1	0	0	0	1
Electronic Technician	5	0	0	0	5
Electronics Equipment Mech.	1	0	0	0	1
Electroplater	2	0	0	0	2
Estimator	0	0	0	0	0
Farm Equipment Mechanic	18	4	2	0	20
Fiberglass Repairer	1	1	0	0	2
Field Engineer Computer Spec.	1	0	0	0	1
Fire Fighter	3	0	0	0	3
Floor Coverer	8	0	4	2	2
Fork Lift Mechanic	0	0	0	0	0
Frame Attendant	0	0	0	0	0
Gas Engine Repairman	2	1	1	1	1
Gas Fitter	3	0	0	1	2
Gas Serviceman (Main. & Repair)	0	0	0	0	0
Gem Cutter	1	0	0	0	1
Gemologist	0	0	0	0	0
General Mechandise Retail Sales Clerk	0	0	0	0	0

TABLE 5 A (Cont.)
APPRENTICESHIP ACTIVITIES BY TRADE
END OF QUARTER -- DECEMBER 31, 1981

TRADE	ACTIVE BEGINNING OF QUARTER	NEW	CANCELLED	COMPLETED	TOTAL ACTIVE END OF QUARTER
Geophysical Prospector	1	0	0	0	1
Glazier	9	3	1	1	10
Granite Carver & Polisher	0	0	0	0	0
Gun Smith	1	0	0	0	1
Heavy Equipment Mechanic	21	0	0	0	21
H.D. Repair and Welder	5	0	0	0	5
Horseshoer	1	0	0	0	1
Hydraulic Equipment Operator	0	0	0	0	0
Hydro Substation Operator	3	0	0	0	3
Installation Technician	66	18	5	4	75
Instrument Repairman	4	1	0	1	4
Insulation Installer	0	0	0	0	0
Ironworker	67	12	7	7	65
Jeweler	2	1	1	0	2
Lather	0	0	0	0	0
Lead Burner	0	0	0	0	0
Lens Grinder	2	0	0	1	1
Lineman	14	14	0	3	25
Linotype Machinist	0	0	0	0	0
Lithographer	1	0	0	0	1
Locksmith	0	0	0	0	0
Machinist	32	5	3	3	31
Mailer	2	0	0	0	2
Maintenance Engineer	0	0	0	0	0
Maintenance Mechanic	17	2	0	1	18
Meat Cutter	53	7	5	2	53
Medical Technologist	1	0	0	0	1
Meter & Relay Mechanic	1	0	0	0	1
Millwright	4	0	0	0	4
Mobile Home Repairman	0	0	0	0	0

TABLE 5 A (Cont.)
APPRENTICESHIP ACTIVITIES BY TRADE
END OF QUARTER -- DECEMBER 31, 1981

TRADE	ACTIVE BEGINNING OF QUARTER	NEW	CANCELLED	COMPLETED	TOTAL ACTIVE END OF QUARTER
Molder	2	0	0	0	2
Monument Maker	0	0	0	0	0
Motor Boat Mechanic	4	1	0	0	4
Motor Cycle Mechanic	6	0	1	0	5
Motor Repair and Winder	3	0	0	0	3
Operator	22	0	0	3	19
Ophthalmic Finish & Assembly	2	0	0	0	2
Optician (Dispensing)	5	1	2	0	4
Orthotist-Prothestist	1	0	0	0	1
Outside Plant Technician	41	2	1	3	39
Painter	22	3	2	1	22
Para Medic	2	0	0	0	2
Partsman	33	4	2	2	33
Photocomposition Typographer	0	0	0	0	0
Photographer	3	0	0	0	3
Photo Engraver	1	0	0	0	1
Pipefitter	52	8	1	10	49
Pinsetter Mechanic	5	1	2	0	4
Plant Mechanic	3	0	0	0	3
Plasterer	0	0	0	0	0
Plater (Electroplater)	1	0	0	0	1
Plumber	97	4	4	15	82
Power Saw Mechanic	0	1	0	0	1
Pressman	14	3	1	0	16
Printer	1	0	0	0	1
Private Branch Exchange Inst.	1	0	1	0	0
Protective System Install.	0	1	0	0	1
Pump Repairer	1	0	0	0	1
Radio Comm. Equipment Install.	2	0	0	0	2

TABLE 5 A (Cont.)
APPRENTICESHIP ACTIVITIES BY TRADE
END OF QUARTER -- DECEMBER 31, 1981

TRADE	ACTIVE BEGINNING OF QUARTER	NEW	CANCELLED	COMPLETED	TOTAL ACTIVE END OF QUARTER
Radio Communications Tech.	2	0	0	0	2
Radio & T.V. Repairer	9	2	2	0	9
Roofer	12	2	0	0	14
Saddlemaker	0	0	0	0	0
Saw Smith	1	1	0	0	2
Screw Machine Operator	0	0	0	0	1
Serviceman I	0	0	0	0	0
Serviceman III	1	0	0	1	0
Serviceman IV	0	0	0	0	0
Sewing Machine Mechanic	2	0	0	0	2
Sheet Metal Worker	47	5	4	7	41
Shoe Repairer	2	1	0	0	3
Shop Attendant	0	0	0	0	0
Sign Electrician	2	2	1	0	3
Sign Painter	2	0	0	0	2
Small Engine Repairer	0	0	0	0	0
Sprinkler Fitter	12	0	0	1	11
Stationary Engineer	1	0	0	0	1
Steamfitter	2	3	0	0	5
Stereotyper	0	0	0	0	0
Stonemason	0	0	0	0	0
Surveyor	3	0	1	1	1
Switching Equipment Tech.	5	0	0	1	4
Thermal Generation Instrument Control Technician	6	2	0	2	6
Thermal Generation Mechanic	18	3	0	0	21
Thermal Generation Operator	37	19	5	3	48
Tile Setter	1	0	1	0	1
Toll Testing Technician	28	2	0	4	26

TABLE 5 A (Cont.)
APPRENTICESHIP ACTIVITIES BY TRADE
END OF QUARTER -- DECEMBER 31, 1981

TRADE	ACTIVE BEGINNING OF QUARTER	NEW	CANCELLED	COMPLETED	TOTAL ACTIVE END OF QUARTER
Tool & Die Maker	0	0	0	0	0
Transmission Mechanic	0	0	0	0	0
Upholsterer	8	0	0	0	8
Utility Electrician	2	0	0	0	2
Utility Meterman	1	1	0	0	1
Utility Relayman	3	0	0	0	3
Welder	5	0	0	0	5
Well Driller	4	0	0	0	4

TABLE 5 B
APPRENTICESHIP ACTIVITIES BY TRADE
END OF QUARTER -- MARCH 31, 1982

TRADE	ACTIVE BEGINNING OF QUARTER	NEW	CANCELLED	COMPLETED	TOTAL ACTIVE END OF QUARTER
Airconditioning Mechanic	1	3	2	2	0
Aircraft Mechanic	3	0	2	1	0
Amusement Machine Mechanic	6	1	0	0	7
Architect	0	0	0	0	0
Assembly Line Meat Cutter	2	0	0	0	2
Auto Body Fendermen	37	1	4	2	32
Automotive Electrician	0	1	0	1	0
Automotive Mechanic	81	9	14	9	67
Automotive Mechanic H.D.	15	4	5	2	12
Automotive Radiator Repairer	0	1	1	0	0
Baker	30	10	0	2	38
Barber	1	0	1	0	0
Boilermaker	28	21	6	6	37
Bookbinder	5	0	2	1	2
Bricklayer	33	0	0	5	28
Business Machine Mechanic	7	5	3	1	8
Butcher	0	1	0	1	0
Cabinet Maker	11	3	3	1	10
Cable Splicing Technician	1	0	0	1	0
Camera Repairman	0	0	0	0	0
Canvas Worker	0	0	0	0	0
Carpenter	210	32	67	33	142
Carpet Layer	1	0	0	1	0
Cash Register Technician	0	0	0	0	0
Cement Finisher	23	8	0	1	30
Centerless Grinder Operator	2	0	0	0	2
Combination Serviceman	2	0	0	0	2
Combination Technician	17	5	2	8	12
Commercial & Graphic Design	0	0	0	0	0
Contact Lens Lab Technician	0	0	0	0	0
Cook	1	0	0	0	1
Dental Instrument Maker	3	0	1	1	1

SOURCE: APPRENTICESHIP BUREAU, DEPARTMENT OF LABOR AND INDUSTRY.

TABLE 5 B (Cont.)
APPRENTICESHIP ACTIVITIES BY TRADE
END OF QUARTER -- MARCH 31, 1982

TRADE	ACTIVE BEGINNING OF QUARTER	NEW	CANCELLED	COMPLETED	TOTAL ACTIVE END OF QUARTER
Dental Technician	0	0	0	0	0
Diesel Mechanic	29	8	8	8	21
Draftsman	5	0	0	1	4
Dry Cleaner	1	0	1	0	0
Drywall Finisher	3	0	0	0	3
Electric Appliance Mechanic	10	5	2	1	12
Electric Motor Repairer	2	0	2	0	0
Electric Sound & Coin Mach.	1	0	0	0	1
Electrician	116	25	9	15	117
Electrician Lineman	92	18	2	10	98
Electrician Serviceman	1	0	0	0	1
Electrician Signal Systems	1	0	0	0	1
Electronic Technician	5	0	1	0	4
Electronics Equipment Mech.	1	0	1	0	0
Electroplater	2	0	1	0	1
Estimator	0	0	0	0	0
Farm Equipment Mechanic	18	4	6	1	15
Fiberglass Repairer	1	1	0	0	2
Field Engineer Computer Spec.	1	0	0	0	1
Fire Fighter	3	0	0	0	3
Floor Coverer	8	0	4	2	2
Fork Lift Mechanic	0	0	0	0	0
Frame Attendant	0	0	0	0	0
Gas Engine Repairman	2	0	2	0	0
Gas Fitter	3	0	0	1	2
Gas Serviceman (Main. & Repair)	0	0	0	0	0
Gem Cutter	1	0	0	0	1
Gemologist	0	0	0	0	0
General Merchandise Retail Sales Clerk	0	0	0	0	0

TABLE 5 B (Cont.)
APPRENTICESHIP ACTIVITIES BY TRADE
END OF QUARTER -- MARCH 31, 1982

TRADE	ACTIVE BEGINNING OF QUARTER	NEW	CANCELLED	COMPLETED	TOTAL ACTIVE END OF QUARTER
Geophysical Prospector	1	0	0	0	1
Glazier	9	3	2	2	8
Granite Carver & Polisher	0	0	0	0	0
Gun Smith	1	0	0	0	1
Heavy Equipment Mechanic	21	0	0	0	21
H.D. Repair and Welder	5	0	0	0	5
Horseshoer	1	0	0	0	1
Hydraulic Equipment Operator	0	0	0	0	0
Hydro Substation Operator	3	0	0	0	3
Installation Technician	66	36	6	8	88
Instrument Repairman	4	1	0	1	4
Insulation Installer	0	0	0	0	0
Ironworker	67	12	11	10	58
Jeweler	2	1	2	0	1
Lather	0	0	0	0	0
Lead Burner	0	0	0	0	0
Lens Grinder	2	0	0	2	0
Lineman	14	14	0	3	25
Linotype Machinist	0	0	0	0	0
Lithographer	1	0	0	0	1
Locksmith	0	1	0	1	0
Machinist	32	7	3	4	32
Mailer	2	0	0	0	2
Maintenance Engineer	0	0	0	0	0
Maintenance Mechanic	17	3	0	3	17
Meat Cutter	53	8	6	4	51
Medical Technologist	1	0	0	0	1
Meter & Relay Mechanic	1	0	0	0	1
Millwright	4	0	0	1	3
Mobile Home Repairman	0	0	0	0	0

TABLE 5 B (Cont.)
APPRENTICESHIP ACTIVITIES BY TRADE
END OF QUARTER -- MARCH 31, 1982

TRADE	ACTIVE BEGINNING OF QUARTER	NEW	CANCELLED	COMPLETED	TOTAL ACTIVE END OF QUARTER
Molder	2	0	0	0	2
Monument Maker	0	0	0	0	0
Motor Boat Mechanic	4	0	0	0	4
Motor Cycle Mechanic	6	2	3	1	4
Motor Repair and Winder	1	0	0	1	0
Operator	22	3	2	4	19
Ophthalmic Finish & Assembly	2	0	0	0	2
Optician (Dispensing)	5	1	3	0	3
Orthotist-Prothestist	1	0	0	0	1
Outside Plant Technician	41	4	1	7	37
Painter	22	5	2	1	24
Para Medic	2	0	0	0	2
Partsman	33	4	2	4	31
Photocomposition Typographer	0	0	0	0	0
Photographer	3	0	0	0	3
Photo Engraver	1	0	0	0	1
Pipefitter	52	8	4	12	44
Pinsetter Mechanic	5	1	2	0	4
Plant Mechanic	3	0	0	0	3
Plasterer	0	0	0	0	0
Plater (Electroplater)	1	0	0	0	1
Plumber	97	5	5	18	79
Power Saw Mechanic	0	1	1	0	0
Pressman	14	0	3	1	13
Printer	1	0	0	1	0
Private Branch Exchange Inst.	1	0	1	0	0
Protective System Install.	0	1	1	0	0
Pump Repairer	1	0	1	0	0
Radio Comm. Equipment Install.	2	0	1	1	0

TABLE 5 B (Cont.)
APPRENTICESHIP ACTIVITIES BY TRADE
END OF QUARTER -- MARCH 31, 1982

TRADE	ACTIVE BEGINNING OF QUARTER	NEW	CANCELLED	COMPLETED	TOTAL ACTIVE END OF QUARTER
Radio Communications Tech.	2	0	2	0	0
Radio & T.V. Repairer	9	2	3	0	8
Roofer	12	2	7	1	6
Saddlemaker	0	0	0	0	0
Saw Smith	1	2	1	0	2
Screw Machine Operator	0	0	0	0	1
Serviceman I	0	0	0	0	0
Serviceman III	1	0	0	1	0
Serviceman IV	0	0	0	0	0
Sewing Machine Mechanic	2	0	0	0	2
Sheet Metal Worker	47	5	7	12	33
Shoe Repairer	2	2	1	1	2
Shop Attendant	0	0	0	0	0
Sign Electrician	2	2	2	1	1
Sign Painter	2	1	0	0	3
Small Engine Repairer	0	0	0	0	0
Sprinkler Fitter	12	0	0	1	11
Stationary Engineer	1	2	0	1	2
Steamfitter	2	3	0	1	4
Stereotyper	0	0	0	0	0
Stonemason	0	0	0	0	0
Surveyor	3	0	2	1	0
Switching Equipment Tech.	5	0	0	2	3
Thermal Generation Instrument Control Technician	6	2	1	7	0
Thermal Generation Mechanic	18	3	0	4	17
Thermal Generation Operator	37	23	6	6	48
Tile Setter	1	0	1	0	0
Toll Testing Technician	28	2	2	12	16

TABLE 5 B (Cont.)
APPRENTICESHIP ACTIVITIES BY TRADE
END OF QUARTER -- MARCH 31, 1982

TRADE	ACTIVE BEGINNING OF QUARTER	NEW	CANCELLED	COMPLETED	TOTAL ACTIVE END OF QUARTER
Tool & Die Maker	0	0	0	0	0
Transmission Mechanic	0	0	0	0	0
Upholsterer	8	0	3	0	5
Utility Electrician	2	0	0	0	2
Utility Meterman	1	1	0	0	1
Utility Relayman	3	0	0	0	3
Welder	5	0	0	0	5
Well Driller	4	0	2	2	0

TABLE 6

EMPLOYMENT BY INDUSTRY

(1,000's)

INDUSTRY	EMPLOYMENT		ANNUAL AVERAGE EMPLOYMENT	
	DECEMBER 31,1981	MARCH 31,1982	1980	1981
TOTAL (non-agricultural Ind.)	292.5	288.5	280.4	285.2
Mining	12.1	11.4	8.8	11.5
Construction	13.8	13.6	14.5	13.4
Manufacturing	23.8	20.8	24.2	23.5
Transportation, Communications & Public Utilities	23.0	22.9	22.4	22.7
Wholesale Trade	18.6	18.5	17.8	18.2
Retail Trade	58.8	57.9	54.5	55.5
Finance, Insurance, and Real Estate	12.7	12.5	12.9	12.9
Service and Miscellaneous	57.7	57.9	55.1	56.7
Public Administration*	71.9	73.0	70.2	70.7

SOURCE: CURRENT EMPLOYMENT STATISTICS PROGRAM.

* Includes all civilian employees of federal, state and local government regardless of the activity in which the employee is engaged.

TABLE 7

JOB SERVICE JOB OPENINGS AVAILABLE BY INDUSTRY

QUARTER ENDING

SIC	INDUSTRY	DECEMBER 31, 1981		MARCH 31, 1982	
		JOBS RECEIVED DURING QUARTER	JOBS FILLED DURING QUARTER	JOBS RECEIVED DURING QUARTER	JOBS FILLED DURING QUARTER
	TOTAL	13,242	11,760	9,710	8,453
01-07	Agriculture	574	538	446	406
10-14	Mining	190	171	111	97
15-17	Construction	905	863	308	281
20-39	Manufacturing	1,631	1,546	766	705
40-49	Transportation, Comm., and Public Utilities	872	771	678	620
50-51	Wholesale Trade	551	501	466	426
52-59	Retail Trade	2,656	2,286	1,701	1,498
60-67	Finance, Insurance, and Real Estate	280	222	240	192
70-89	Service	4,930	4,369	4,382	3,713
91-97	Public Administration	619	456	578	490
	Nonclassifiable	34	37	34	25

SOURCE: ESARS TABLE 12.

TABLE 8 A

STATUS OF JOB SERVICE OPENINGS BY OCCUPATIONAL CATEGORY

QUARTER ENDING DECEMBER 31, 1981

OCCUPATIONS	OPENINGS START OF QUARTER	OPENINGS REC'D DURING QUARTER	OPENINGS FILLED DURING QUARTER	POSITION UNFILLED END OF QUARTER	POSITIONS OPEN 30 DAYS OR MORE
TOTAL*	1,966	13,947	12,459	2,122	1,444
Prof.,Tech.,Mgr.	385	1,968	1,683	522	371
Clerical, Sales	446	2,857	2,279	531	305
Service	584	3,432	3,109	538	355
Agricultural	68	356	306	72	61
Processing	43	1,123	1,092	51	29
Machine Trades	64	204	170	54	38
Bench Work	18	144	137	19	13
Structural	139	1,051	1,008	102	83
Miscellaneous	216	2,809	2,672	231	187
Invalid Codes	3	3	3	2	2

* Totals across matrix will not balance as job opening are periodically cancelled.
SOURCE: ESARS TABLE 96.

TABLE 8 B

STATUS OF JOB SERVICE OPENINGS BY OCCUPATIONAL CATEGORY

QUARTER ENDING -- MARCH 31, 1982

OCCUPATIONS	OPENINGS START OF QUARTER	OPENINGS REC'D DURING QUARTER	OPENINGS FILLED DURING QUARTER	POSITION UNFILLED END OF QUARTER	POSTIONS OPEN 30 DAYS OR MORE
TOTAL*	2,122	10,274	9,037	2,400	1,538
Prof.,Tech.,Mgr.	522	2,330	1,865	840	555
Clerical, Sales	531	2,279	1,934	532	309
Service	538	2,297	2,065	488	306
Agricultural	72	282	273	75	55
Processing	51	306	305	39	31
Machine Trades	54	198	156	52	30
Bench Work	19	103	83	29	16
Structural	102	456	419	107	80
Miscellaneous	231	2,016	1,930	237	155
Invalid Codes	2	7	7	1	1

* Totals across matrix will not balance as job openings are periodically cancelled.
SOURCE: ESARS TABLE 96.

TABLE 9 A

JOB SERVICE LISTED JOB OPENINGS
OCCUPATIONS WITH 10 OR MORE OPENINGS
END OF QUARTER -- DECEMBER 31, 1981

DOT CODE	OCCUPATIONAL TITLE	UNFILLED-START OF QUARTER	RECEIVED DURING QUARTER	FILLED DURING QUARTER	UNFILLED END OF QUARTER	OPEN 30 DAYS OR MORE
201-362-030	Secretary	28	105	79	24	13
203-362-010	Clerk-Typist	20	93	68	20	6
209-562-010	Clerk, General	19	409	372	34	24
210-382-014	Bookkeeper, Full Charge	10	95	68	15	8
211-462-010	Cashier II	22	116	93	23	7
219-362-010	Administrative Clerk	29	156	118	32	21
237-367-038	Receptionist	10	73	47	15	6
249-367-074	Teacher Aide	28	103	77	53	23
290-477-014	Sales Clerk	45	328	263	58	33
299-357-014	Telephone Solicitor	8	67	48	24	15
311-477-014	Counter, Attendant	54	319	275	60	31
311-477-030	Waiter/Waitress, Informal	0	89	80	19	13
311-477-038	Waiter/Waitress, Take out	0	61	52	11	11
312-474-010	Bartender	11	54	40	15	11
313-361-014	Cook (Hotel & Restaurant)	11	148	119	24	15
318-687-010	Kitchen Helper	44	415	396	35	22
323-687-014	Cleaner, Housekeeper	47	178	169	28	23
355-674-014	Nurse's Aide	31	99	96	19	17
372-667-034	Guard Security	4	63	41	23	1
382-664-010	Janitor	35	173	152	37	27
620-261-010	Auto Mechanic	19	48	36	13	9
869-664-014	Construction Worker	33	343	341	27	18
904-383-010	Tractor-Trailer-Truck Driver	14	60	50	11	8
929-687-030	Material Handler	62	1,600	1,564	72	55
950-382-026	Stationary Engineer	12	85	71	25	23

SOURCE: ESARS TABLE 96.

TABLE 9 B

JOB SERVICE LISTED JOB OPENINGS
OCCUPATIONS WITH 10 OR MORE OPENINGS
END OF QUARTER -- MARCH 31, 1982

DOT CODE	OCCUPATIONAL TITLE	UNFILLED-START OF QUARTER	RECEIVED DURING QUARTER	FILLED DURING QUARTER	UNFILLED END OF QUARTER	OPEN 30 DAYS OR MORE
169-167-010	Administrative Assistant	8	16	8	13	6
201-362-030	Secretary	24	93	80	15	6
203-362-010	Clerk-Typist	20	88	78	18	6
209-562-010	Clerk, General	34	196	178	43	27
210-382-014	Bookkeeper, Full Charge	15	79	58	20	9
219-362-010	Administrative Clerk	32	155	124	34	16
237-367-038	Receptionist	15	61	44	16	5
238-362-010	Hotel Clerk	8	57	44	13	7
249-367-074	Teacher Aide	53	84	82	55	54
290-477-014	Sales Clerk	58	139	115	48	29
299-357-014	Telephone Solicitor	24	85	70	24	13
301-474-010	Houseworker, General	9	79	64	16	6
311-447-014	Counter, Attendant	60	163	155	39	22
311-477-030	Waiter/Waitress, Informal	19	50	37	17	10
313-361-014	Cook (Hotel & Restaurant)'	24	108	82	33	12
315-361-010	Cook	5	37	24	13	6
318-687-010	Kitchen Helper	35	139	119	38	24
323-687-014	Cleaner, Housekeeper	28	198	161	47	29
355-674-014	Nurse's Aide	19	52	50	18	16
372-667-034	Guard, Security	23	21	22	20	10
382-664-010	Janitor	37	135	118	35	21
620-261-010	Auto Mechanic	13	47	33	15	6
869-664-014	Construction Worker	27	122	119	30	21
905-663-014	Truck Driver, Heavy	1	30	16	12	3
929-687-030	Material Handler	72	1,239	1,222	74	56
950-382-026	Stationary Engineer	25	102	87	40	35

SOURCE: ESARS TABLE 96.

TABLE 10
DISTRIBUTION OF EMPLOYMENT
BY MAJOR OCCUPATIONAL GROUP
1976 AND PROJECTED 1985

MAJOR OCCUPATIONAL GROUP	1976 EMPLOYMENT	1976 PERCENT DISTRIBUTION	PROJECTED 1985 EMPLOYMENT	PROJECTED 1985 PERCENT DISTRIBUTION	PERCENT CHANGE 1976-1985
TOTAL ALL OCCUPATIONS	314,750	100.0	417,380	100.0	32.6
WHITE COLLAR WORKERS	148,650	47.2	201,960	48.4	35.9
Professional, Technical and Kindred	46,210	14.7	62,170	14.9	34.5
Managers, Officials, and Properietors	40,780	13.0	54,900	13.2	34.6
Sales Workers	16,990	5.4	22,140	5.3	30.3
Clerical Workers	44,670	14.2	62,750	15.0	40.5
BLUE COLLAR WORKERS	87,180	27.7	116,890	28.0	34.1
Craft and Kindred Workers	39,470	12.5	55,740	13.4	41.2
Operatives	32,120	10.2	41,060	9.8	27.8
Laborers, Except Farmers	15,590	5.0	20,090	4.8	28.9
SERVICE WORKERS	46,790	14.9	66,430	15.9	42.0
FARMERS AND FARM WORKERS	32,130	10.2	32,100	7.7	-0.1

SOURCE: MONTANA INDUSTRY/OCCUPATION PROJECTIONS, FIFTH EDITION.

TABLE 11

TOTAL EMPLOYMENT BY OCCUPATIONAL CATEGORY
1976-1985

OCCUPATIONAL GROUP	1976	1985	PERCENT CHANGE
TOTAL ALL OCCUPATIONS	314,750	417,380	32.6
Professional, Technical and Kindred	46,210	62,170	34.5
Engineers, Technical	2,410	3,220	33.6
Life and Physical Scientist	1,480	1,830	23.4
Mathematical Specialist	70	90	33.3
Engineers, Science Tech.	2,850	3,870	35.8
Medical Workers, Exc. Tech.	6,300	9,440	49.8
Health Technol. & Tech.	1,420	2,040	43.1
Technicians, Exc. Health	1,010	1,370	35.0
Computer Specialist	440	590	36.3
Social Scientists	390	570	45.5
Teachers	15,200	20,700	36.1
Writers, Artists, Entertainers	3,040	4,090	34.7
Other Professional, Technical	11,600	14,380	23.9
Managers, Officials, Proprietors	40,780	54,900	34.6
Buyers, Sales, Loan Managers	5,270	8,151	54.8
Administrators, Pub. Inspectors	5,340	7,300	36.7
Other Managers, Officials, Props.	30,170	39,450	30.8
Sales Workers	16,990	22,140	30.3
Clerical Workers	44,670	62,750	40.5
Stenographers, Typists, Secretaries	12,320	17,680	43.6
Office Machine Operators	1,200	1,340	11.7
Other Clerical Workers	31,150	43,730	40.4
Craft & Kindred Workers	39,470	55,740	41.2
Construction Craft Workers	13,850	21,180	52.9
Blue Collar Worker Supv., N.E.C.	3,810	5,310	39.3
Metalworking Craft Workers, Exc.Mec	1,750	2,360	34.3
Printing Trade Craft Workers	840	830	-1.2
Trans., P.U. Craft	2,030	3,080	51.6
Other Craft, Kindred Workers	5,210	6,820	30.8

SOURCE: MONTANA INDUSTRY/OCCUPATION PROJECTIONS, FIFTH EDITION.

TABLE 11

TOTAL EMPLOYMENT BY OCCUPATIONAL CATEGORY
1976-1985

OCCUPATIONAL GROUP	1976	1985	PERCENT CHANGE
Operatives	32,120	41,060	27.8
Operatives, Exc. Transport	20.080	26,190	30.4
Transport Equip. Operatives	12,040	14,880	23.5
Service Workers	46,790	66,430	42.0
Cleaning Service Workers	9,850	14,100	43.1
Food Service Workers	19,420	27,890	43.6
Health Service Workers	6,360	9,910	55.7
Personal Service Workers	6,480	8,960	38.4
Protective & Service Workers	2,860	4,170	46.1
Private Household Workers	1,860	1,410	-24.2
Laborers, Except Farm	15,590	20.090	28.9
Farmers & Farm Workers	32,130	32,100	-0.1
Farmers & Farm Managers	18,220	19,670	7.9
Farm Laborers, Farm Supvrs.	13,900	12,430	-10.6

TABLE 12
TOTAL ANNUAL AVERAGE JOB OPENINGS
DUE TO GROWTH AND LABOR FORCE SEPARATIONS
BY SELECTED OCCUPATIONAL GROUP
1976-1985

OCCUPATIONAL GROUP	OPENINGS DUE TO GROWTH	OPENINGS DUE TO SEPARATIONS	TOTAL OPENINGS	PERCENT OF TOTAL
TOTAL ALL OCCUPATIONS	11,400	12,360	23,770	100.0
Professional, Technical & Kindred	1,770	1,530	3,300	13.9
Engineers, Technical	90	40	130	0.6
Life and Physical Scientist	40	30	70	0.3
Mathematical Specialist	*	*	*	0.0
Engineers, Science Tech.	110	50	160	0.7
Medical Workers, Exc. Tech.	350	240	590	2.5
Health Technol. & Tech.	70	40	110	0.5
Technicians, Exc. Health	40	30	70	0.3
Computer Specialist	20	*	20	0.1
Social Scientists	20	10	30	0.1
Teachers	610	600	1,210	5.1
Writers, Artists, Entertainers	120	90	210	0.9
Other Professional, Technical	310	400	710	3.0
Managers, Officials, Proprietors	1,570	1,830	3,400	14.2
Buyers, Sales, Loan Managers	320	180	500	2.1
Administrators, Pub. Inspectors	220	280	500	2.1
Other Managers, Officials, Prop.	1,030	1,380	2,410	10.1
Sales Workers	570	700	1,270	5.3
Clerical Workers	2,010	1,770	3,780	15.9
Stenographers, Typists, Secre.	600	500	1,100	4.6
Office Machine Operators	20	30	50	0.2
Other Clerical Workers	1,400	1,240	2,640	11.1
Craft & Kindred Workers	1,810	1,250	3,060	12.9
Construction Craft Workers	810	490	1,300	5.5
Blue Collar Workers Supv., N.E.	170	130	300	1.3
Metalworking Craft Wrks.Exc.Mec.	70	50	120	0.5
Mechanics, Repairers/Installers	470	320	790	3.3

* Denotes occupations with annual openings less than 10.
SOURCE: MONTANA INDUSTRY/OCCUPATIONS PROJECTIONS, FIFTH EDITION.

TABLE 12 (cont.)
TOTAL ANNUAL AVERAGE JOB OPENINGS
DUE TO GROWTH AND LABOR FORCE SEPARATIONS
BY SELECTED OCCUPATIONAL GROUP
1976-1985

OCCUPATIONAL GROUP	OPENINGS DUE TO GROWTH	OPENINGS DUE TO SEPARATIONS	TOTAL OPENINGS	PERCENT OF TOTAL
Printing Trade Craft Workers	*	20	20	0.1
Trans., P.U. Craft	120	40	160	0.7
Other Craft, Kindred Workers	180	190	370	1.6
Operatives	990	840	1,830	7.7
Operatives, Exc. Transport	680	560	1,240	5.2
Transport Equip, Operatives	310	280	590	2.5
Service Workers	2,180	2,400	4,580	19.3
Cleaning Service Workers	470	640	1,110	4.7
Food Service Workers	940	870	1,810	7.6
Health Service Workers	390	300	690	2.9
Personal Service Workers	280	370	650	2.7
Protective & Service Workers	150	130	280	1.2
Private Household Workers	-50	90	40	0.2
Laborers, Except Farm	500	450	950	4.0
Laborers & Farm Workers	*	1,590	1,590	6.7
Farmers & Farm Managers	160	1,140	1,300	5.5
Farm Laborers, Farm Supervisors	-160	460	300	1.3

TABLE 13

SELECTED OCCUPATIONS HAVING
HIGH GROWTH RATES 1976 - 1985

OCCUPATION	TOTAL EMPLOYMENT 1976	TOTAL EMPLOYMENT 1985	PERCENT CHANGE
Professional, Technical, Kindred			
Chiropractors	90	137	52.2
Dentist	471	728	54.6
Optometrists	414	793	91.6
Podiatrists	129	234	81.4
Therapists	535	876	63.7
Veterinarians	105	167	59.0
Clinical Lab Technicians	619	934	50.9
Radiologic Technician	306	482	57.5
Airplane Pilots	195	311	59.5
Urban & Regional Planners	64	111	73.4
Elementary School Teachers	6,387	10,144	58.8
Preschool, Kindergarten	838	1,506	79.7
Atheletes & Kindred Workers	231	324	56.7
Architects	216	325	50.5
Clergy	1,032	1,580	53.1
Religious, except Clergy	222	341	53.6
Managers, Officials, Proprietors			
Bank, Financial Managers	2,073	3,523	70.0
Buyer, Wholesale, Retail	395	615	55.7
School Administrator elem., secondary	1,379	2,318	68.1
Managers, Superintendents, Buildings	398	601	51.0
Railroad Conductors	385	665	72.7

SOURCE: MONTANA INDUSTRY/OCCUPATION PROJECTIONS, FIFTH EDITION.

TABLE 13 (cont.)

SELECTED OCCUPATIONS HAVING
HIGH GROWTH RATES 1976 - 1985

OCCUPATION	TOTAL EMPLOYMENT 1976	TOTAL EMPLOYMENT 1985	PERCENT CHANGE
Clerical Workers			
Secretaries, Legal	388	590	52.1
Secretaries, Medical	240	517	115.4
Secretaries, Other	8,692	13,153	51.3
Billings Clerk	397	721	81.6
Meter Reader, Utilities	131	238	81.7
Teacher Aides, exc. Monitors	1,203	2,606	116.6
Miscellaneous Clerk Workers	2,933	6,139	109.3
Craft & Kindred Workers			
Carpenters and Apprentices	5,767	8,770	52.1
Bulldozer Operators	798	1,361	70.6
Cement & Concrete Finishers	136	262	92.7
Electricians & Apprentices	1,850	2,881	55.7
Plumbers, Pipefitters	1,336	2,061	54.3
Structural Metal Craft Workers	240	450	87.5
Air Cond., Heating, Refrig. Mechanic	345	487	75.4
Household Appliance Mechanic	528	874	65.5
Office Machine Repairs	222	422	90.1
Electric Power Line Installer, Repairs	437	858	96.3
Glaziers	136	216	58.8
Opticians, Lens Grinders, Polishers	278	512	84.2
Operatives			
Blasters	80	179	123.8

TABLE 13 (cont.)

SELECTED OCCUPATIONS HAVING
HIGH GROWTH RATES 1976 - 1985

OCCUPATION	TOTAL EMPLOYMENT 1976	TOTAL EMPLOYMENT 1985	PERCENT CHANGE
Operatives			
Drillers, Earth	644	980	52.2
Photographic Process Workers	178	292	64.0
Rail Vehicle Operators	131	296	126.0
Railroad Brake Operators	508	779	53.4
Service Workers			
Lodging Quarter Cleaners, exc. Private	1,349	2,550	89.0
Building Interior Cleaners, nec.	3,334	5,154	54.6
Food Counter, Fountain Workers	1,274	2,048	60.8
Dental Assistants	397	792	99.5
Health Aides, exc. Nursing	673	1,196	77.7
Practical Nurses	1,384	2,272	64.2
Child Care Workers, exc. Private	1,990	3,748	88.3
Guards	807	1,221	51.3
Police & Detectives	1,158	1,776	52.5
Farmers and Farm Workers			
Farm Managers	860	2,015	134.3

TABLE 14

SELECTED OCCUPATIONS HAVING
ANNUAL AVERAGE OPENINGS GREATER THAN 100

OCCUPATION	ANNUAL AVERAGE OPENINGS
Professional, Technical, Kindred	
Registered Nurses	269
Elementary School Teachers	735
Preschool, Kindergarten	112
Secondary School Teachers	264
Accountants	179
Clergy	116
Managers, Officials, Proprietors	
Bank, Financial Managers	232
Sales Manager, Retail Trade	107
Officials, Administrators, Public	152
School Admin. Elementary, Secondary	158
Office Managers, nec.	158
Restaurant, Cafe, Bar Managers	210
Sales Workers	
Insurance Agents, Brokers, etc.	107
Real Estate Agents, Brokers	145
Clerical Workers	
Secretaries, other	870
Typist	142
Bookkeepers	491
Cashiers	313
Counter Clerks, exc. Food	161
Receptionist	176
Teachers Aides, exc. Monitors	211
Miscellaneous Clerical Workers	507

SOURCE: MONTANA INDUSTRY/OCCUPATION PROJECTIONS, FIFTH EDITION.

TABLE 14 (cont.)

SELECTED OCCUPATIONS HAVING
ANNUAL AVERAGE OPENINGS GREATER THAN 100

OCCUPATION	ANNUAL AVERAGE OPENINGS
Craft and Kindred Workers	
Carpenters and Apprentices	583
Electricians and Apprentices	168
Excavating, Grading, Machine Operators	184
Plumbers, Pipefitters, Apprentices	132
Auto Mechanics and Apprentices	232
Heavy Equipment Mechanics	195
Operatives	
Welders and Flame Cutters	124
Garage Workers, Gas Station Attendants	123
Laundry, Dry Cleaning Operators	101
Mine Operatives	108
Sawyers	108
Miscellaneous Machine Operators	124
Delivery and Route Workers	129
Truck Drivers	271
Service	
Lodging Quarter Cleaners	223
Building Interior Cleaners	438
Janitors and Sextons	447
Bartenders	277
Cooks	613
Dishwashers	116
Food Counter, Fountain Workers	133
Waiters	516
Nurses Aides, Orderlies	369
Practical Nurses	180

TABLE 14 (cont.)

SELECTED OCCUPATIONS HAVING
ANNUAL AVERAGE OPENINGS GREATER THAN 100

OCCUPATION	ANNUAL AVERAGE OPENINGS
Service	
Child Care Workers	344
Hairdressers, Cosmetologist	117
Guards	120
Laborers, exc. Farm	
Construction Laborer	169
Freight, Material Handlers	130
Gardeners, Groundskeeper	149
Stock Handlers	128
Farmers and Farm Workers	
Farm Managers	215
Farm Laborers, Wage Workers	171

TABLE 15

SELECTED OCCUPATIONS HAVING
NEGATIVE GROWTH RATE 1976-1985

OCCUPATION	TOTAL EMPLOYMENT 1976	TOTAL EMPLOYMENT 1985	PERCENT CHANGE
Professional, Technical, Kindred			
Atmospheric, Space Scientist	241	224	-7.1
Farm Management Advisors	105	55	-47.6
Research Workers, Inc.	439	350	-20.3
College & University Teachers	2,232	1,769	-20.7
Manager, Official, Proprietors			
Postmasters and Mail Supervisors	296	227	-23.3
School Administrators, College	302	266	-10.9
Officials of Lodges, Unions	275	180	-34.5
Sales Workers			
Newspaper Carrier & Vendors	404	343	-15.1
Clerical Workers			
Stenographers	766	573	-25.2
Keypunch Operators	498	392	-21.3
Mail Carriers, Post Office	777	648	-16.6
Postal Clerks	831	616	-25.9
Telegraph Operators	207	168	-18.8
Enumerators & Interviewers	602	395	-65.6
Crafts and Kindred Workers			
Blacksmiths	43	25	-41.9
Compositors and Typesetters	528	474	-10.2

SOURCE: MONTANA INDUSTRY/OCCUPATION PROJECTIONS, FIFTH EDITION.

TABLE 15 (cont.)

SELECTED OCCUPATIONS HAVING
NEGATIVE GROWTH RATE 1976-1985

OCCUPATION	TOTAL EMPLOYMENT 1976	TOTAL EMPLOYMENT 1985	PERCENT CHANGE
Crafts and Kindred Workers			
Locomotive Engineer Helpers	75	64	-14.7
Bakers	388	387	-0.3
Operatives			
Grinding Machine Operatives	63	55	12.7
Clothing Ironers & Pressers	310	286	-7.7
Filer, Polisher, Sander, Buffer	150	146	-2.7
Bus Driver	1,547	1,302	-15.8
Taxicab Drivers, Chauffeurs	233	228	-2.2
Service Workers			
Baggage Porters & Bellhops	77	40	-48.1
Barbers	577	481	16.6
Elevator Operators	72	67	-6.9
Child Care Workers, Private	1,297	1,007	-22.4
Housekeepers, Private	170	109	-35.9
Farmers and Farm Workers			
Farm Laborers, Wage Workers	12,042	10,020	-16.8

GLOSSARY OF TERMS

ACTIVE APPLICANT:	Person considered currently available for referral to job openings or employability development services.
CIVILIAN LABOR FORCE:	The number of persons 16 years and older, employed or unemployed, excluding members of the Armed Forces.
CURRENT EMPLOYMENT STATISTICS PROGRAM:	Prepares monthly estimates of current non-agricultural employment, hours, and earnings.
DOT (Dictionary of Occupational Titles):	A publication which lists about 20,000 jobs with concise definitions. A nine digit coding system is used for occupational classification.
ESARS (Employment Service Automated Reporting System):	Primarily concerned with providing cumulative data on individuals being served by Job Service. Some industry data is also provided.
LABOR DEMAND:	The number of job oppportunties in specific occupations.
LABOR SUPPLY:	The number of individuals who are qualified for and seeking work in a specific occupation.
PARTIAL APPLICANTS:	An applicant who has completed a minimum of entries on the application record, and who has not been assigned an occupational code.

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150 copies of this publication were produced at a unit cost of $.90 per copy, for a total cost of $ 135.60 which includes $ 90.60 for printing and $ 45.00 for distribution.